

=====

Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=1; day=16; hr=16; min=5; sec=43; ms=559; ]

=====

Application No: 10565847 Version No: 1.0

Input Set:

Output Set:

Started: 2007-12-31 15:21:19.073  
Finished: 2007-12-31 15:21:20.205  
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 132 ms  
Total Warnings: 9  
Total Errors: 4  
No. of SeqIDs Defined: 35  
Actual SeqID Count: 35

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
E 257	Invalid sequence data feature in <221> in SEQ ID (10)
E 257	Invalid sequence data feature in <221> in SEQ ID (11)
E 257	Invalid sequence data feature in <221> in SEQ ID (12)
E 257	Invalid sequence data feature in <221> in SEQ ID (13)

# SEQUENCE LISTING

<110> UNIVERSITE LAVAL  
PERUSSE, Louis  
BOUCHARD, Luigi

<120> OBESITY MARKERS AND USES THEREOF

<130> 1912-0320PUS1

<140> 10565847

<141> 2007-12-31

<150> US 60/490,535

<151> 2003-07-29

<160> 35

<170> PatentIn version 3.4

<210> 1

<211> 654

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Neuromedin cDNA

<220>

<221> gene

<222> (1)..(654)

<400> 1

ctgttaccgc ggaggagagc tcctcgcccg acctctaccc tcatgaagag aggctcagag	60
ttaccttagg cgagacttaa ccgaatcttc taaccgctgg tgtgtttttg ctgcacctcg	120
gaaaagctga gggagcaggc tttgccacca cccagacacc tttgtggctc cttggtgacc	180
agcccatccc cattgggggac agctccccac acctccctga gggaccagcg actgcagggc	240
catccccgga tcctgcatgg gaggaattac caccagtagc tgtattaggg tgtgacgcag	300
agctcaaagg aggaacagtc caaagaaagg aagctgacct tcccagtaga ccccatgtga	360
ggacgctgac actagcccag caccaagcac tgtatttgga ttttcttcca cgatcaatgg	420
caggatgccc ctatctttat caggagcccc tccctggctc aattcttctg tatgtaatgg	480
ggcagacaca acagcgtggc ttagattgtg cccaccaggg gaaggtgctg aatgggtgctg	540
aatgggaccc tgttgatggc cccatctgga tgtaaatcct gagctcaaat ctctataaaa	600
ccttgctctt tacatacaat gcctggtcct ctccctttcac ccgtctttta gggg	654

<210> 2  
<211> 121  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic peptide

<220>  
<221> MISC\_FEATURE  
<222> (1)..(121)  
<223> polypeptideNeuromedin

<400> 2

Met Ala Arg Arg Ala Gly Gly Ala Arg Met Phe Gly Ser Leu Leu Leu  
1 5 10 15

Phe Ala Leu Leu Ala Ala Gly Val Ala Pro Leu Ser Trp Asp Leu Pro  
20 25 30

Glu Pro Arg Ser Arg Ala Ser Lys Ile Arg Val His Ser Arg Gly Asn  
35 40 45

Leu Trp Ala Thr Gly His Phe Met Gly Lys Lys Ser Leu Glu Pro Ser  
50 55 60

Ser Pro Ser Pro Leu Gly Thr Ala Pro His Thr Ser Leu Arg Asp Gln  
65 70 75 80

Arg Leu Gln Leu Ser His Asp Leu Leu Gly Ile Leu Leu Leu Lys Lys  
85 90 95

Ala Leu Gly Val Ser Leu Ser Arg Pro Ala Pro Gln Ile Gln Tyr Arg  
100 105 110

Arg Leu Leu Val Gln Ile Leu Gln Lys  
115 120

<210> 3  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Neuromedin forward PCR primer

<220>

<221> primer\_bind  
<222> (1)..(18)  
  
<400> 3  
tgcagtcgct ggtccctc 18

<210> 4  
<211> 20  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Neuromedin reverse PCR primer

<220>  
<221> primer\_bind  
<222> (1)..(20)  
  
<400> 4  
aggcgagact taaccgaatc 20

<210> 5  
<211> 17  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Neuromedin mini-sequencing primer

<220>  
<221> primer\_bind  
<222> (1)..(17)  
  
<400> 5  
cctcaggag gtgtggg 17

<210> 6  
<211> 19  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Neuromedin mRNA quantification forward primer

<220>  
<221> primer\_bind  
<222> (1)..(19)  
  
<400> 6  
ttccagccca tccccattg 19

<210> 7  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Neuromedin mRNA quantification reverse primer  
  
 <220>  
 <221> primer\_bind  
 <222> (1)..(21)  
  
 <400> 7  
 caacagggaa gcaggaaata c 21  
  
 <210> 8  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> L27 mRNA quantification forward primer  
  
 <220>  
 <221> primer\_bind  
 <222> (1)..(20)  
  
 <400> 8  
 gggcaagttc atgaaacctg 20  
  
 <210> 9  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> L27 mRNA quantification reverse primer  
  
 <220>  
 <221> primer\_bind  
 <222> (1)..(20)  
  
 <400> 9  
 ccttgtgggc attagtgat 20  
  
 <210> 10  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> neuromedin-beta

<222> (1)..(121)

<400> 10

Met Ala Arg Arg Ala Gly Gly Ala Arg Met Phe Gly Ser Leu Leu Leu  
1 5 10 15

Phe Ala Leu Leu Ala Ala Gly Val Ala Pro Leu Ser Trp Asp Leu Pro  
20 25 30

Glu Pro Arg Ser Arg Ala Ser Lys Ile Arg Val His Ser Arg Gly Asn  
35 40 45

Leu Trp Ala Thr Gly His Phe Met Gly Lys Lys Ser Leu Glu Pro Ser  
50 55 60

Ser Pro Ser Pro Leu Gly Thr Ala Pro His Thr Ser Leu Arg Asp Gln  
65 70 75 80

Arg Leu Gln Leu Ser His Asp Leu Leu Gly Ile Leu Leu Leu Lys Lys  
85 90 95

Ala Leu Gly Val Ser Leu Ser Arg Pro Ala Pro Gln Ile Gln Tyr Arg  
100 105 110

Arg Leu Leu Val Gln Ile Leu Gln Lys  
115 120

<210> 11

<211> 121

<212> PRT

<213> Mus musculus

<220>

<221> neuromedin-beta

<222> (1)..(121)

<400> 11

Met Thr Arg Gln Ala Gly Ser Ser Trp Leu Leu Arg Gly Leu Leu Leu  
1 5 10 15

Phe Ala Leu Phe Ala Ser Gly Val Ala Pro Phe Asn Trp Asp Leu Pro  
20 25 30

Glu Pro Arg Ser Arg Ala Ser Lys Ile Arg Val His Pro Arg Gly Asn  
 35 40 45

Leu Trp Ala Thr Gly His Phe Met Gly Lys Lys Ser Leu Glu Pro Pro  
 50 55 60

Ser Leu Ser Leu Val Gly Thr Ala Pro Pro Asn Thr Pro Arg Asp Gln  
 65 70 75 80

Arg Leu Gln Leu Ser His Asp Leu Leu Arg Ile Leu Leu Arg Lys Lys  
 85 90 95

Ala Leu Gly Met Asn Phe Ser Gly Pro Ala Pro Pro Ile Gln Tyr Arg  
 100 105 110

Arg Leu Leu Glu Pro Leu Leu Gln Lys  
 115 120

<210> 12  
 <211> 3677  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> neuromedin-beta  
 <222> (1)..(3677)

<400> 12  
 ctgttaccgc ggaggagagc tcctcgcccg acctctacc tcatgaagag aggctcagag 60  
 ggctgaagtgc cctatttggc cgaaagccgt ggcagagtgg caaggcaggc ccaggggaag 120  
 cggctccgcc gccggggccg ggccctgtt tggccggtgc ccggtcctta gctgaaggt 180  
 ggcgggcttc cgccagaagc ccctggcgga agcgggtgcc gcgtgcgggc cagagtgtgg 240  
 gtgtgcaggt ctctgggagg cccaaagggg gtgcccctgc ctggtaacct agcgggaggg 300  
 tggggacggc ggggagggcg gcgggcgcgg ggcacggctc cgctgctcag ggcaggctcc 360  
 gccccaggc gcgcggattt aaaaggatcg aaggcagccc cggagcccag cggccgggaa 420  
 gcgcgcccga acgaagccgc ggcccgggca cagccatggc ccggcgggag gggggcgctc 480  
 ggatgttcgg cagcctcctg ctcttcgccc tgctcgctgc cggcgtcgcc ccgctcagct 540  
 gggatctccc ggagccccgc agccgagcca gcaagatccg agtgactcgc cgaggcaacc 600



tctggggccac	cggtaagtct	ttggggacgg	agcaagcaag	cggccctcat	ccagttcaga	660
ccccatttcc	ttctcaacc	tctggccgct	cctcagccac	ggacactagt	gtcggagcag	720
gtggaaaacc	ctggggctca	tctaatttaa	tagatatgta	cttgagaccc	ggacaggtca	780
gtgacttggc	taaggtcgcg	cagccagttt	aagacagggc	tgggctagat	cctaaatccc	840
actgccagcc	ggtgcccctt	accttaggcg	agacttaacc	gaatcttcta	accgctggtg	900
tgtttttgct	gcacctccac	ttccaggcg	cctcttcact	ctccacttcc	taccctgccc	960
tttttcgtcc	cttgtccaag	cagcccacac	aactagcaga	gtttctccct	ggccctggac	1020
catcccacct	tectgccagc	tgtgccatcc	tctctacctg	ttcaggaaaa	gctgagggag	1080
caggctttgc	caccaccag	acacctttgt	ggctccttgg	tgaggtggaa	gcaccaagag	1140
gaggaaggtt	aagtgtcttc	ccgctacaag	aacggaaacg	tgggagagat	gaggaacttt	1200
tcctctgagg	taggatcctg	gctgcttgac	ttccttgtgc	ctggacacct	cctttccagg	1260
tcacttcatg	ggcaagaaga	gtctggagcc	ttccagecca	tccccattgg	ggacagctcc	1320
ccacacctcc	ctgagggacc	agcgactgca	gctgagtcac	gatctgctcg	gaatcctcct	1380
gctaaagaag	gctctgggcg	tgagcctcag	ccgccccgca	ccccaaatcc	aggtgagccg	1440
ggccccctgt	ccaatgtcag	gagggcccag	ctggggccat	ccccggatcc	tgcatgggag	1500
gaattaccac	ccagtactgt	attaggggtgt	gactgtctga	ctaggacatt	atgggtgtgg	1560
acccagaaaa	gccagggtttc	caggettttc	cctcttgagg	cagagctcaa	aggaggaaca	1620
gtccaaagaa	aggaagctga	ccttcccagt	agaccccatg	gggcaagaag	tagggaaaaga	1680
agttcccctg	actcatcacc	cagtctaaag	taacagactg	ggatcatcag	ccttttggag	1740
caggaccttt	ctccccagct	ctacacagtc	ttgtcccacc	catgctgttc	cctgctgcat	1800
tagtcaagtc	cacctttgct	gtgtcctgtg	tatgcttgtg	gccggaatgg	gacctgagg	1860
cccagagagg	gaaagagaag	tcagcagcca	agacagagtc	tggaccttgt	tcacctggac	1920
tggagctctt	ccattctctt	catctgcctc	agtatccagt	ggtagggttt	agcaacttca	1980
gtacatttga	cgttctaggc	tgaatcactg	tttcttgtga	gggctgacgt	gtgcatcatg	2040
ggatgttttg	cagcatccct	ggtctctaca	tactagatgc	cagtagcatc	tttccccccc	2100
atcaagttgt	gacaactgaa	aagacctcca	gacatcacca	gatgtctgct	gggggagagg	2160
gccccaaatc	attattgggt	gtcagtcact	gatctatggg	attcaagact	ccaaagctgg	2220
agccaagcta	gcctcaaggc	atagccccgc	tgagtggcaa	ctccttcatt	ccctgctcct	2280
ggtgctgtcc	ttactgcaca	ccacctccc	tggtcctgct	gctgtgtgca	gaaggcagtg	2340

tgatgtggta gaatgtgggt tttgactaca acgtgctggg ctcataacct agctacttag	2400
tagctgtatg accttagaaa tgtcccttaa cttctctaaa gcctcaatat tcttcacca	2460
taaaatgaag ataataaggc ccatctccca ttaaatagaga ccatttatgt caaatgctca	2520
gcatggtgcc tggtcatag acagccctta gtagatgga gctcttatca gtctgtgagc	2580
tccttggcgg cacctgttgt agactcgct tcatatcccc cagtgtgcct agcatatagt	2640
gtgtgcattt tgaagggaga ggcattccct agaaaaggtc caaccagcc tcaaccaaca	2700
tccttgactt cctgaggcac agaaccagca gccctgagg acctcagatg taaggcctag	2760
gagcttgggc tggtgagtc tgaaggga caatgtcacc tctaatagcc ttggttttga	2820
agctctgaca catgcagacc aactagagaa tctcagaagc agcagtgcct acgtctgggg	2880
cttcagagtg aggtctgggg cagagctggg gtgggggagt gaggacgctg aactagccc	2940
agcaccaagc actgtatttg gatctcttc cactgcttc tttgactgtc atgaccacc	3000
tgggtggttg gggctgtgtt ctgagaaaac tactgcccc acccctcaa ggcaattcag	3060
ggtgctctgg ggctgcctc agctgacagc ctgctggtgc ccacctctgc agacatctgg	3120
cacttaggaa tggcaggatg cccctatctt tatcaggagc ccctccctgg ctcaattctt	3180
ctgtatgttt ctcttcagta caggaggctg ctggtacaaa tactgcagaa atgacaccaa	3240
taatggggca gacacaacag cgtggcttag attgtgccc cccagggaag gtgctgaatg	3300
ggaccctgtt gatggcccca tctggatgta aatcctgagc tcaaatactt gttactccat	3360
tactgtgatt tctggctggg tcaccagaaa tatcgctgat gcagacacag attatgttcc	3420
tgctgtattt cctgcttccc tgttgaattg gtgaataaaa ccttgctctt tacatacaat	3480
gcctggtcct ctctttcac ccgtctttta ggggatggga ggaaaaggg gctggagggc	3540
agagtgttca gtgagatggg gctggctcaa aaagtccaga ataccccatg ccatggcacc	3600
agcctggcac tgactctggc ctctaccca ttcattcagc aagcaaataa cgctgttgc	3660
atgccaggct tcgtgcc	3677

<210> 13

<211> 3677

<212> DNA

<213> Homo sapiens

<220>

<221> Neuromedin-beta\_mutant

<222> (1)..(3677)

<400> 13

ctgttaccgc	ggaggagagc	tcttcgcccc	acctctaccc	tcatgaagag	aggctcagag	60
ggctgaagtg	cctatttggc	cgaaagccgt	ggcagagtgg	caaggcaggg	ccaggggaag	120
cggctccgcc	gceggggccg	ggccccgtt	tggccggtgc	ccggtcctta	gcctgaaggt	180
ggcgggcttc	cgccagaagc	ccctggcgga	agcggtgccc	gcgtgcgggc	cagagtgtgg	240
gtgtgcaggt	ctctgggcgg	cccaaagggg	gtgccccctgc	ctggtaacct	agcgggaggg	300
tggggacggc	ggggagggcg	gcgggcgcgg	ggcacggctc	cgctgctcag	ggcaggctcc	360
gccccaggg	gcgcggattt	aaaaggatcg	aaggcagccc	cggagcccag	cggccgggaa	420
gcgcgcccga	acgaagccgc	ggccccggca	cagccatggc	ccggcggggc	gggggcgctc	480
ggatgttcgg	cagcctcctg	ctcttcgccc	tgctcgctgc	cggcgtcgcc	ccgctcagct	540
gggatctccc	ggagccccgc	agccgagcca	gcaagatccg	agtgcactcg	cgaggcaacc	600
tctgggccac	cggtaagtct	ttggggacgg	agcaagcaag	cgcccccat	ccagttcaga	660
ccccatttcc	ttctcaacct	tctggccgct	cctcagccac	ggacactagt	gtcggagcag	720
gtggaaaacc	ctggggctca	tctaatttaa	tagatatgta	cttgagaccc	ggacaggtca	780
gtgacttggc	taaggctcgc	cagccagttt	aagacagggc	tgggctagat	cctaaatccc	840
actgccagcc	ggtgccccct	accttaggcg	agacttaacc	gaatcttcta	acggctggtg	900
tgtttttgct	gcacctccac	tttcaggcg	cctcttcaact	ctcacttcc	tacctgccc	960
tttttcgtcc	cttgtccaag	cagcccacac	aactagcaga	gtttctccct	ggccctggac	1020
catcccacct	tcctgccagc	tgtgccatcc	tctctacctg	ttcaggaaaa	gctgagggag	1080
caggatttgc	caccaccag	acacctttgt	ggctccttgg	tgaggtggaa	gcaccaagag	1140
gaggaaggtt	aagtgtcttc	ccgtacaag	aacggaaacg	tgggagagat	gaggaacttt	1200
tcctctgagg	taggatcctg	gctgcttgac	ttccttgtgc	ctggacacct	cctttccagg	1260
tcacttcatg	ggcaagaaga	gtctggagcc	ttccagccca	tccccattgg	ggacagctac	1320
ccacacctcc	ctgagggacc	agcgactgca	gctgagtcac	gatctgctcg	gaatcctcct	1380
gctaaagaag	gctctgggcg	tgagcctcag	ccgccccgca	ccccaaatcc	aggtgagccg	1440
ggccccctgt	ccaatgtcag	gagggcccag	ctggggccat	ccccggatcc	tgcattggaag	1500
gaattaccac	ccagtactgt	attaggggtgt	gactgtctga	ctaggacatt	atgggtgtgg	1560
accccagaaa	gccaggtttc	caggcttttc	cctcttgagg	cagagctcaa	aggagggaaca	1620
gtccaaacaa	aggaagctga	ccttcccagt	agaccccatg	gggcaagaag	tagggaaaaga	1680

agttcccttg actcatcacc cagtctaaag taacagactg ggatcatcag ccttttgag	1740
caggaccttt ctccccagt ctacacagtc ttgtcccacc catgctgttc cctgctgcat	1800
tagtcaagtc cacctttgct gtgtcctgtg tatgcttgtg gccggaatgg gaccctgagg	1860
cccagagagg gaaagagaag tcagcagcca agacagagtc tggaccttgt tcacctggac	1920
tggagctctt cccattctct catctgcctc agtatccagt ggtagggttt agcaacttca	1980
gtacatttga cgttctaggc tgaatcactg tttcttgtga gggctgacgt gtgcatcatg	2040
ggatgttttg cagcatccct ggtctctaca tactagatgc cagtagcatc tttccccccc	2100
atcaagttgt gacaactgaa aagacctcca gacatcacca gatgtctgct gggggagagg	2160
gccccaaatc attattgggt gtcagtcact gatctatggg attcaagact ccaaagctgg	2220
agccaagcta gcctcaaggc atagccccgc tgagtggcaa ctcttctatt ccctgctcct	2280
ggtgctgtcc ttactgcaca ccacctccc tggctcctgct gctgtgtgca gaaggcagtg	2340
tgatgtggta gaatgtgggt tttgactaca acgtgctggg ctcataacct agctacttag	2400
tagctgtatg accttagaaa tgtcccttaa cttctctaaa gcctcaatat tcttcacca	2460
taaaatgaag ataataaggc ccatctccca ttaaatgaga ccatttatgt caaatgctca	2520
gcatggtgcc tggctcatag acagccctta gtagatgcga gctcttatca gtctgtgagc	2580
tccttggcgg cacctgttgt agactcgct tcatatcccc cagtgtgcct agcatatagt	2640
gtgtgcattt tgaagggaga ggcattccct agaaaaggtc caaccagcc tcaaccaaca	2700
tccttgactt cctgaggcac agaaccagca gccctgagg acctcagatg taaggcctag	2760
gagcttgggc tggctgagtc tgaagggaaa caatgtcacc tctaattgcc ttggttttga	2820
agctctgaca catgcagacc aactagagaa tctcagaagc agcagtgcct acgtctgggg	2880
cttcagagtg aggtctgggg cagagctggg gtgggggagt gaggacgctg aactagccc	2940
agcaccaggc actgtatttg gatcttcttc cactgcttc tttgactgtc atgaccaccc	3000
tgggtggttg gggctgtgtt ctgagaaaac tactgccccg accctccaa ggcaattcag	3060
ggtgctctgg ggctgcctc agctgacagc ctgctgggtgc ccacctctgc agacatctgg	3120
cacttaggaa tggcaggatg cccctatctt tatcaggagc cttccctgg ctcaattctt	3180
ctgtatgttt ctcttcagta caggaggctg ctggtacaaa tactgcagaa atgacaccaa	3240
taatggggca gacacaacag cgtggcttag actgtgccc cccagggaag gtgctgaatg	3300
ggacctgtt gatggccgca tctggatgta aatcctgagc tcaaactctt gttactccat	3360

tactgtgatt tctggctggg tcaccagaaa tctcgtgat gcagacacag attatgttcc	3420
tgctgtattt cctgcttccc tgttgaattg gtgaataaaa ccttgctctt tacataaaat	3480
gcctggtcct ctcttttcac ccgtctttta ggggatggga ggaaaagggg gctggagggc	3540
agagtgttca gtgagatggg gctggctcaa aaagtccaga ataccccatg ccatggcacc	3600
agcctggcac tgactctggc ctctaccca ttcattcagc aagcaaataa cgctgttgc	3660
atgccaggct tegtgc	3677

<210> 14  
 <211> 60  
 <212> DNA  
 <213> Homo sapiens

<400> 14	
ctgttacccg ggaggagagc tcctcgcccg acctctaccc tcatgaagag aggctcagag	60

<210> 15  
 <211> 60  
 <212> DNA  
 <213> Homo sapiens

<400> 15	
ctgttacccg ggaggagagc tcttcgcccc acctctaccc tcatgaagag aggctcagag	60

<210> 16  
 <211> 60  
 <212> DNA  
 <213> Homo sapiens

<400> 16	
ttaccttagg cgagacttaa ccgaatcttc taaccgctgg tgtgtttttg ctgcacctcc	60

<210> 17  
 <211> 60  
 <212> DNA  
 <213> Homo sapiens

<400> 17	
ttaccttagg cgagacttaa ccgaatcttc taaccgctgg tgtgtttttg ctgcacctcc	60

<210> 18  
 <211> 60  
 <212> DNA  
 <213> Homo sapiens

<400> 18	
ggaaaagctg agggagcagg ctttgcacc acccagacac ctttgtggct ctttgtgag	60

<210> 19  
<211> 60  
<212> DNA  
<213> Homo sapiens  
  
<400> 19  
ggaaaagctg agggagcagg atttgcacc accagacac cttgtggt ctttgtgag 60

<210> 20  
<211> 60  
<212> DNA  
<213> Homo Sapiens  
  
<400> 20  
ccagcccatc cccattgggg acagctccc acacctcct gagggaccag cgactgcagc 60

<210> 21  
<211> 60  
<212> DNA  
<213> Homo Sapiens  
  
<400> 21  
ccagcccatc cccattgggg acagctacc acacctcct gagggaccag cgactgcagc 60

<210> 22  
<211> 60  
<212> DNA  
<213> Homo Sapiens  
  
<400> 22  
ggccatcccc ggatcctgca tgggaggaat taccaccag tactgtatta ggggtgtgact 60

<210> 23  
<211> 60  
<212> DNA  
<213> Homo Sapiens

<400> 23  
ggccatcccc ggatcctgca tgga